This listing of claims replaces all prior versions and listings:

Listing of Claims:

1-3. (canceled)

4. (currently amended) ~~The method as recited in Claim 3,~~ A method comprising:

receiving file system data;

storing the file system data in a plurality of reserved sectors within a non-volatile memory;

compressing the file system data stored within in the plurality of reserved sectors to create a compressed data block; and

storing the compressed data block in at least one physical subsector within the non-volatile memory, wherein the physical subsector is associated with at least one virtual sector identifiable through sector allocation information stored in a volatile memory that is operatively accessible by an operating system,

wherein receiving file system data further includes presenting an operating system with a plurality of operatively accessible virtual sectors resulting in a virtual memory capacity that exceeds the actual physical capacity of the non-volatile memory,

wherein storing the compressed data block at least one physical subsector within the non-volatile memory further includes mapping the plurality of virtual sectors to at least one physical subsector through a Virtual Sector Table (VST)

stored in the volatile memory and presenting the operating system with the VST, and

wherein mapping the plurality of virtual sectors to at least one physical subsector through the Virtual Sector Table (VST) further includes providing a Sector Allocation Table (SAT) within the volatile memory, the SAT mapping the physical subsectors to the VST.

5. (original) The method as recited in Claim 4, wherein providing a Sector Allocation Table (SAT) within the volatile memory further includes generating the SAT based at least on a unique group identifier that is stored in each physical subsector associated with storing the compressed data block.

6. (original) The method as recited in Claim 5, wherein the Sector Allocation Table (SAT) is generated during a device initialization time.

7-19. (canceled)

20. (currently amended) ~~The computer readable medium as recited in Claim 19,~~ A computer-readable medium having computer-executable instructions for performing steps comprising:

receiving file system data;

storing the file system data in a plurality of reserved sectors within a non-volatile memory;

compressing the file system data stored within in the plurality of reserved sectors to create a compressed data block; and

storing the compressed data block in at least one physical subsector within the non-volatile memory, wherein the physical subsector is associated with at least one virtual sector identifiable through sector allocation information stored in a volatile memory that is operatively accessible by an operating system,

wherein receiving file system data further includes presenting an operating system with a plurality of operatively accessible virtual sectors resulting in a virtual memory capacity that exceeds the actual physical capacity of the non-volatile memory,

wherein storing the compressed data block at least one physical subsector within the non-volatile memory further includes mapping the plurality of virtual sectors to at least one physical subsector through a Virtual Sector Table (VST) stored in the volatile memory and presenting the operating system with the VST, and

wherein mapping the plurality of virtual sectors to at least one physical subsector through the Virtual Sector Table (VST) further includes providing a Sector Allocation Table (SAT) within the volatile memory, the SAT mapping the physical subsectors to the VST.

21. (original) The computer-readable medium as recited in Claim 20, wherein providing a Sector Allocation Table (SAT) within the volatile memory further includes generating the SAT based at least on a unique group identifier that is stored in each physical subsector associated with storing the compressed data block.

22. (original) The computer-readable medium as recited in Claim 21, wherein the Sector Allocation Table (SAT) is generated during a device initialization time.

23-35. (canceled)

36. (currently amended) ~~The arrangement as recited in Claim 35,~~ An arrangement for use in providing an application access a non-volatile memory, the arrangement comprising:

an operating system; and

a device driver, wherein the operating system is configured to exchange input/output (I/O) requests with the application and exchange corresponding file system requests with the device driver, and wherein the device driver is configured to store the file system data received from the operating system in a plurality of reserved sectors within the non-volatile memory, compress the file system data stored within in the plurality of reserved sectors to create a compressed data block, and store the compressed data block in at least one physical subsector within the non-volatile memory, wherein the physical subsector is associated with at least one virtual sector identifiable through sector allocation information stored in a volatile memory that is operatively accessible by the operating system,

wherein the device driver is further configured to present the operating system with a plurality of operatively accessible virtual sectors resulting in a virtual memory capacity that exceeds the actual physical capacity of the non-volatile memory,

wherein the device driver is further configured to map the plurality of virtual sectors to at least one physical subsector through a Virtual Sector Table (VST) stored in the volatile memory and present the operating system with the VST, and

wherein the device driver is further configured to store a Sector Allocation Table (SAT) within the volatile memory, the SAT mapping the physical subsectors to the VST.

37. (original) The arrangement as recited in Claim 36, wherein the device driver is further configured to generate the SAT based at least on a unique group identifier that is stored in each physical subsector associated with storing the compressed data block.

38. (original) The arrangement as recited in Claim 37, wherein the device driver is further configured to generate the Sector Allocation Table (SAT) during a device initialization time.

39-46. (canceled)